

# Rat Intestinal-type alkaline phosphatase (ALPI) ELISA Kit



Catalog No: #EK11338

Orders: order@signalwayantibody.com

Package Size: #EK11338-1 48T #EK11338-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Intestinal-type alkaline phosphatase (ALPI) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	IAP; Kasahara isozyme alkaline phosphomonoesterase glycerophosphatase intestinal alkaline phosphatase
Accession No.	P15693
Uniprot	P15693
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:0.781-50 ng/mL

Sensitivity:0.33 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate ALPI in samples. An antibody specific for ALPI has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyALPI present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ALPI is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ALPI bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Alkaline phosphatase, intestinal also known as ALPI is a type of alkaline phosphatase.The deduced polypeptide showed 86.5% amino acid identity to placental ALP and 56.6% amino acid identity to liver/bone/kidney ALP. Thus, the immunologic cross-reactivity of ALPI and ALPP is perhaps explained.

Calf Intestinal Alkaline Phosphatase (CIP) is an enzyme that catalyzes the 5' phosphate group's removal from DNA. This enzyme is frequently used in DNA sub-cloning, because DNA fragments which lack the 5' phosphoryl termini cannot self-ligate. Preventing self ligation is important both in improving the yield of properly ligated product, and reducing the background of improperly self-ligated contaminant.

---

Note: This product is for in vitro research use only